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APR 2 2003

TECH CENT



OIPE

#18

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003

TIME: 13:16:50

Input Set : N:\AMC\I904923b.raw

Output Set: N:\CRF4\04152003\I904923B.raw

1 <110> APPLICANT: Novartis AG
 2 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellular
 3 r matrix components
 4 <130> FILE REFERENCE: 4-30246a/GTI
 C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/904,923B
 6 <141> CURRENT FILING DATE: 2001-07-13
 7 <160> NUMBER OF SEQ ID NOS: 3
 8 <170> SOFTWARE: Patentln version 3.1
 10 <210> SEQ ID NO: 1
 11 <211> LENGTH: 229
 12 <212> TYPE: PRT
 13 <213> ORGANISM: Moloney murine leukemia virus
 14 <400> SEQUENCE: 1
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 16 1 5 10 15
 17 Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His
 18 20 25 30
 19 Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu
 20 35 40 45
 21 Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe
 22 50 55 60
 23 Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly
 24 65 70 75 80
 25 Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys
 26 85 90 95
 27 Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser
 28 100 105 110
 29 Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser
 30 115 120 125
 31 Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys
 32 130 135 140
 33 Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Trp Asp Phe
 34 145 150 155 160
 35 Ile Thr Val Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys
 36 165 170 175
 37 Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala
 38 180 185 190
 39 Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg
 40 195 200 205
 41 Leu Tyr Val Ser Gly Gln Asp Pro Gly Ile Thr Phe Gly Ile Arg Leu
 42 210 215 220
 43 Arg Tyr Gln Asn Leu
 44 225

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003

TIME: 13:16:50

Input Set : N:\AMC\I904923b.raw

Output Set: N:\CRF4\04152003\I904923B.raw

46 <210> SEQ ID NO: 2
 47 <211> LENGTH: 687
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Moloney murine leukemia virus
 50 <400> SEQUENCE: 2

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53	cttaccccaag	atttatgtat	gttagccac	catggaccat	cttattgggg	gctagaatat	180
54	caatccccctt	tttcttctcc	cccgggggccc	ccttgttgc	cagggggcag	cagcccaaggc	240
55	tgttccagag	actgcgaaga	acctttaacc	tccctcaccc	ctcggtgcaa	cactgcctgg	300
56	aacagactca	agctagacca	gacaactcat	aaatcaaatg	agggatttta	tgtttgcccc	360
57	ggggccccacc	gcccccgaga	atccaagtca	tgtgggggtc	cagactcctt	ctactgtgcc	420
58	tattggggct	gtgagacaac	cgttagagct	tactggaaagc	cctcctcattc	atgggatttc	480
59	atcacagtaa	acaacaatct	cacctctgac	caggctgtcc	aggtatgcaa	agataataag	540
60	tggtgcaacc	ccttagttat	tcggtttaca	gacgccccgg	gacgggttac	ttcctggacc	600
61	acaggacatt	actggggctt	acgtttgtat	gtctccggac	aagatccagg	gcttacattt	660
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64 <210> SEQ ID NO: 3
 65 <211> LENGTH: 10
 66 <212> TYPE: PRT
 67 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: collagen-binding domain of von Willebrand Factor
 70 <220> FEATURE:
 71 <221> NAME/KEY: BINDING
 72 <222> LOCATION: (1) (10)
 73 <223> OTHER INFORMATION:
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 75 Trp Arg Glu Pro Ser Phe Met Ala Leu Ser
 76 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003
TIME: 13:16:51

Input Set : N:\AMC\I904923b.raw
Output Set: N:\CRF4\04152003\I904923B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/904,923B**

DATE: 04/15/2003

TIME: 13:16:51

Input Set : **N:\AMC\I904923b.raw**

Output Set: **N:\CRF4\04152003\I904923B.raw**

L:5 M:270 C: Current Application Number differs, Wrong Format

L:74 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3, Line#:0



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:15

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I904923B.raw

3 <110> APPLICANT: Novartis AG
 5 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellular
 matrix
 6 components
 8 <130> FILE REFERENCE: 271010-463
 10 <140> CURRENT APPLICATION NUMBER: US 09/904,923B
 11 <141> CURRENT FILING DATE: 2001-07-13
 14 <160> NUMBER OF SEQ ID NOS: 3
 16 <170> SOFTWARE: PatentIn version 3.1
 W--> 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 229
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Moloney murine leukemia virus
 22 <400> SEQUENCE: 1
 24 Ala Ser Pro Gly Ser Ser Pro His Gln Val Tyr Asn Ile Thr Trp Glu
 25 1 5 10 15
 28 Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His
 29 20 25 30
 32 Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu
 33 35 40 45
 36 Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe
 37 50 55 60
 40 Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly
 41 65 70 75 80
 45 Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys
 46 85 90 95
 49 Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser
 50 100 105 110
 53 Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser
 54 115 120 125
 56 Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys
 57 130 135 140
 59 Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Ser Trp Asp Phe
 60 145 150 155 160
 62 Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys
 63 165 170 175
 65 Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala
 66 180 185 190
 68 Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg
 69 195 200 205
 71 Leu Tyr Val Ser Gly Gln Asp Pro Gly Leu Thr Phe Gly Ile Arg Leu
 72 210 215 220
 74 Arg Tyr Gln Asn Leu
 75 225

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:15

Input Set : A:\EP.txt
Output Set: N:\CRF4\04142003\I904923B.raw

78 <210> SEQ ID NO: 2
79 <211> LENGTH: 687
80 <212> TYPE: DNA
83 <213> ORGANISM: Moloney murine leukemia virus
86 <400> SEQUENCE: 2
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89 gatcgggaga cggtatggc aacttctggc aaccaccctc tggacactg gtggcctgac 120
91 cttaccccgat atttatgtat gttagccac catggaccat cttattgggg gctagaatat 180
93 caatccctt tttttctcc cccggggccc cttgttgc cagggggcag cagccaggc 240
95 tggccagag actgcgaaga accttaacc tccctcaccc ctcggtgcaa cactgcctgg 300
97 aacagactca agctagacca gacaactcat aaatcaaatg agggatttt tggtgcccc 360
99 gggcccccacc gcccccgaga atccaagtca tgtggggtc cagactccctt ctactgtgcc 420
101 tattggggct gtgagacaac cggtagagct tactggaaagc cttcctcata atgggatttc 480
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105 tggtgcaacc ccttagttat tcggtttaca gacggccggga gacgggttac ttccctggacc 600
107 acaggacatt actggggctt acgtttgtat gtctccggac aagatccagg gcttacattt 660
109 gggatccgac tcagatacca aaatcta 687
112 <210> SEQ ID NO: 3
113 <211> LENGTH: 10
114 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: collagen-binding domain of von Willebrand Factor
122 <400> SEQUENCE: 3
124 Trp Arg Glu Pro Ser Phe Met Ala Leu Ser
125 1 5 10
129 #153407v1
130 Page 3
delete

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PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:16

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I904923B.raw

L:17 M:283 W: Missing Blank Line separator, <210> field identifier